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PATENT ABSTRACTS OF JAPAN

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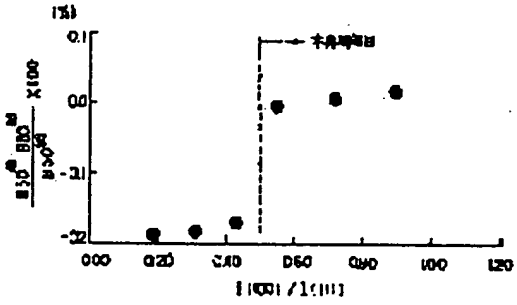
(54) NONORIENTED SILICON STEEL SHEET HAVING HIGH MAGNETIC FLUX DENSITY AFTER STRESS RELIEF ANNEALING

(57)Abstract:
PURPOSE: To produce a nonoriented silicon steel sheet having high magnetic flux density after stress relief annealing by forming a texture, satisfying the prescribed conditions, in a steel sheet before stress relief annealing, in a nonoriented silicon steel sheet containing specific amounts of Si and C.
CONSTITUTION: A nonoriented silicon steel sheet, containing, by weight, ≤7.00% Si and ≤0.010% C in steel and used for iron core for use in electrical equipment, such as rotary machine iron core and transformer iron core, is provided, before stress relief annealing, with a texture in which I(100) and I(111) as the values of the ratios of the X-ray reflected surface intensities of (100) and (111) orientations in the pseudoplane parallel to a sheet surface in the part between the surface layer and a position at a depth one-fifth the sheet thickness from the surface layer to a random texture, satisfy relational inequality 0.50≤I(100)/I(111). By this method, the nonoriented silicon steel sheet having high magnetic flux density after stress relief annealing can be obtained.



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